

4 April 1956

MEMORANDUM FOR: THE RECORD

SUBJECT: Visit to National Bureau of Standards

1. Time and Place of Meeting: The meeting was held on 3 April 1956, at the National Bureau of Standards.

2. Attendance: Walter Koidan, Sound Section, NBS  
William Wildhack, CBI, NBS  
[redacted] TSS/APD

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3. Discussion:

a. Mr. Koidan from the Sound Section submitted a letter from Martin Greenspan, Acting Chief of the Mechanics Division of the Sound Section, concerning the Audio Demodulator. NBS concluded that the system was not practical and it would not be profitable to continue work on it. NBS conclusions are attached to this report.

Mr. Koidan showed the undersigned the rough results on the AED microphones submitted to them for testing. The results follow fairly close to the response curves taken on the microphones when they were not encased in brass.

The undersigned was taken on a brief tour of the "Dead Room" under construction at NBS. Once the acoustic room is finished, NBS's capabilities of doing sound and acoustic work should be comparable to that of [redacted]

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Mr. Wildhack, CBI, was contacted concerning NBS interest in building a Peek-a-Boo system. NBS stated that since they would shortly be starting construction on several systems for themselves, they would be able to build one for us also. Mr. Wildhack stated that the cost should not exceed \$500.00. He stated that he would like to discuss the system with the ultimate user so as to ascertain the type of punch needed. Therefore, a meeting between [redacted] CRR, Mr. Wildhack, and the undersigned has been arranged for 0900 on 5 April 1956.

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[redacted] CRR, was informed that a formal memo would have to come from his office to [redacted] stating that CRR needed the system and desired that TSS/APD procure one for them.

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Mr. Wildhack reported that no progress had been made by NBS on the measurement of wall thicknesses by ultra-sonics or microwaves. However, he stated that next month NBS plans to start an extensive program using ultra-sonics to measure the thickness of concrete roadbeds. This program should furnish us with the information needed on ultra-sonic wall measurements.

Mr. Wildhack has requested assistance from NBS's Boulder, Colorado, group on the use of microwaves for wall measurements. Work by the Boulder group, using microwaves, will commence shortly.

  
TBS/APD

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**Attachment**

Letter Mentioned above

**Distribution:**

Orig. - NBS Microphone file  
1 - Ad Hoc #25  
1 - ANS  
1 - Chrono

TBS/APD/ANS/bb

U. S. DEPARTMENT OF COMMERCE

NATIONAL BUREAU OF STANDARDS

ADDRESS REPLY TO

NATIONAL BUREAU OF STANDARDS

WASHINGTON 25, D. C.

March 19, 1956

IN YOUR REPLY  
REFER TO FILE NO.

6.1/3585



STAT

Subject: Loud-Speaking Telephone  
Set, U. S. Patent  
No. 2,568,823

Dear



STAT

Investigation of the feasibility of U. S. Patent  
No. 2,568,823 from both the theoretical and experimental  
approach has not as yet produced satisfactory results.  
The indications at present are that the system is not  
practical, and we feel that it would not be profitable  
to continue work on this project at this time. If any  
new ideas as to how to circumvent the present difficulties  
should occur to us we will investigate their practicability.  
We would also welcome suggestions from you.

Very truly yours

Martin Greenspan  
Acting Chief  
Sound Section  
Mechanics Division